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# REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a) JUL 3 1 2001 File Information Unit Paper No. **Assistant Commissioner for Patents** Washington, DC 20231 I hereby request access under 37 CFR 1.14(a)(3)(iv) to the application file record of the above-Identified ABANDONED application, which is: (CHECK ONE) (A) referred to in United States Patent Number 584500 0 (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. \_ \_\_filed paper number \_\_ (C) an application that claims the benefit of the filling date of an application that is open to public Inspection, i.e., Application No. \_ (D) an application in which the applicant has filed an authorization to lay open the complete application to the public. Please direct any correspondence concerning this request to the following address: Signature FOR PTO USE ON! Typed or printed name

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Tradement Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



# United States Patent [19]

## Breed et al.

#### **Patent Number:** [11]

5,845,000

**Date of Patent:** [45]

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## **OPTICAL IDENTIFICATION AND** MONITORING SYSTEM USING PATTERN RECOGNITION FOR USE WITH VEHICLES

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[\*] Notice: The term of this patent shall not extend

beyond the expiration date of Pat. No.

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### Related U.S. Application Data

[63]	Continuation-in-part of Ser. No. 878,571, May 5, 1992,
	abandoned, Ser. No. 40,978, Mar. 31, 1993, abandoned, Ser.
	No. 247,760, May 23, 1994, and Ser. No. 239,978, May 9,
	1994, abandoned.

[51]	Int. Cl	G06K 9/00
[52]	U.S. Cl	
[58]	Field of Search	
	382/103, 291,	100: 280/735: 348/143, 148

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#### **ABSTRACT** [57]

A vehicle interior monitoring system to identify, locate and monitor occupants, including their parts, and other objects in the passenger compartment and objects outside of a motor vehicle, such as an automobile or truck, by illuminating the contents of the vehicle and objects outside of the vehicle with electromagnetic, and specifically infrared, radiation and using one or more lenses to focus images of the contents onto one or more arrays of charge coupled devices (CCD arrays). Outputs from the CCD arrays, are analyzed by appropriate computational means employing trained pattern recognition technologies, to classify, identify or locate the contents or external objects. In general, the information obtained by the identification and monitoring system is used to affect the operation of some other system in the vehicle. When system is installed in the passenger compartment of an automotive vehicle equipped with an airbag, the system determines the position of the vehicle occupant relative to the airbag and disables deployment of the airbag if the occupant is positioned so that he/she is likely to be injured by the deployment of the airbag.

### 25 Claims, 12 Drawing Sheets

